

Domain organization and amino acid sequence of MTSP7

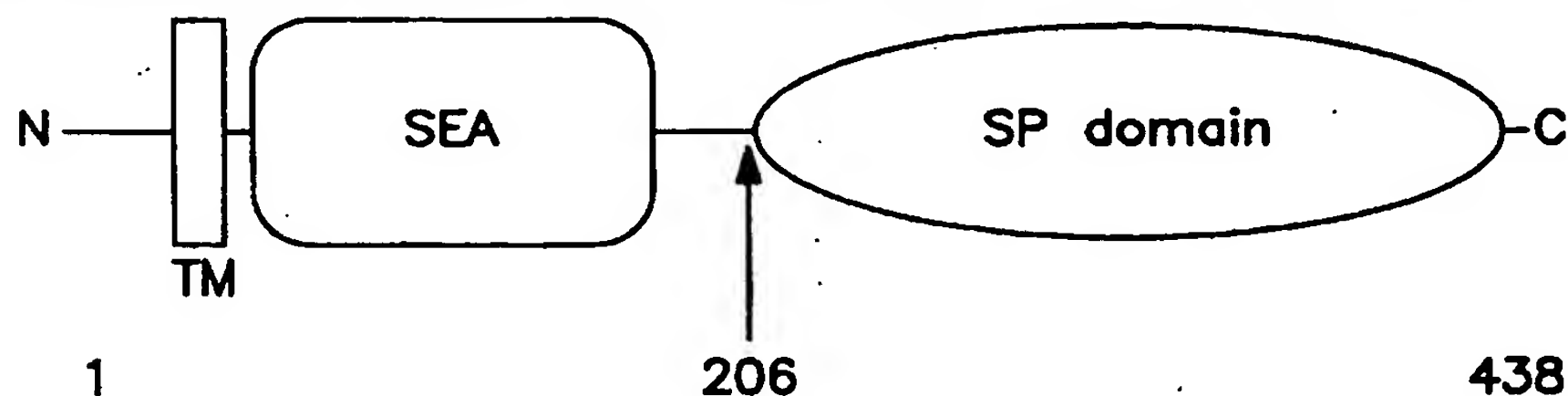


FIG. 1A

10	20	30	40	50	60
MMYTPVEFSEAEFSRAEYQRKQQFWDSVRLALFTLAIVAIIGIAIGIVTHFVVEDDKSFY					
70	80	90	100	110	120
YLASFKVTNIKYKENYGIRSSREFIERSHQIERMMSRIFRHSSVGGRFIKSHVIKLSPE					
130	140	150	160	170	180
QGVDILIVLIFRYPSTDSAEQIKKKIEKALYQSLTKQLSLTINKPSFRLTPIDSKMRN					
190	200	210	220	230	240
LLNSRCGIRMTSSNMPLPASSSTQ↓RIVQGRETAMEGEWPQASLQLIGSGHQCGASLISN					
250	260	270	280	290	300
TWLLTAAHCFWKNKDPTQWIATFGATITPPAVKRNVRKIILHENYHRETNDIALVQLS					
310	320	330	340	350	360
TGVEFSNIVQRVCLPDSSIKLPPKTSVFVTGFGSIVDDGPIQNTLRQARVETISTDVCNR					
370	380	390	400	410	420
KDVYDGLITPGMLCAGFMEGKIDACKGDSGGPLVYDNHDIWYIVGIVSWGQSCALPKKPG					
430					
VYTRVTKYRDWIASKTGM*					

↓ = protease cleavage site

FIG. 1B

Applicant(s): Edwin Madison et al.

Nucleic Acid Molecules Encoding A Transmembrane Serine
Protease 7, The Encoded Polypeptides And Methods Based
Thereon

```
10      20      30      40      50      60
AGATCAGATGGCGACTGAATAGAAAGCTGCCCCAGTCCTGGGTTTCATGATGTACACACCTG
TCTAGTCTACCGCTGACTTATCTTCGACGGGGTCAGGACCCAAGTACTACATGTGTGGAC

70      80      90      100     110     120
TTGAATTTTCAGAAGCTGAATTCTCACGAGCTGAATATCAAAGAAAGCAGCAATTTTGGG
AACTTAAAAGTCTTCGACTTAAGAGTGCTCGACTTATAGTTTCTTTCGTCGTTAAAACCC

130     140     150     160     170     180
ACTCAGTACGGCTAGCTCTTTTCACATTAGCAATTGTAGCAATCATAGGAATTGCAATTG
TGAGTCATGCCGATCGAGAAAAGTGAATCGTTAACATCGTTAGTATCCTTAACGTTAAC

190     200     210     220     230     240
GTATTGTTACTCATTTTGTTGTTGAGGATGATAAGTCTTCTATTACCTTGCCCTCTTTTA
CATAACAATGAGTAAAACAACAACCTCTACTATTTCAGAAAGATAATGGAACGGAGAAAAT

250     260     270     280     290     300
AAGTCACAAATATCAAATATAAAGAAAATTATGGCATAAGATCTTCAAGAGAGTTTATAG
TTCAGTGTTTATAGTTTATATTTCTTTTAATACCGTATTCTAGAAGTTCTCTCAAATATC

310     320     330     340     350     360
AAAGGAGTCATCAGATTGAAAGAATGATGTCTAGGATATTTTCGACATTCTTCTGTAGGCG
TTTCCTCAGTAGTCTAACTTTCTTACTACAGATCCTATAAAGCTGTAAGAAGACATCCGC

370     380     390     400     410     420
GTCGATTTATCAAATCTCATGTTATCAAATTAAGTCCAGATGAACAAGGTGTGGATATTC
CAGCTAAATAGTTTAGAGTACAATAGTTTAATTCAGGTCTACTTGTTCACACCTATAAG

430     440     450     460     470     480
TTATAGTGCTCATATTTTCGATACCCATCTACTGATAGTGCTGAACAAATCAAGAAAAAAA
AATATCACGAGTATAAAGCTATGGGTAGATGACTATCACGACTTGTTTAGTTCTTTTTTTT

490     500     510     520     530     540
TTGAAAAGGCTTTATATCAAAGTTTGAAGACCAAAACAATTGTCTTTGACCATAAAACAAAC
AACTTTTCCGAAATATAGTTTCAAACCTTCTGGTTTGTAAACAGAACTGGTATTTGTTTG

550     560     570     580     590     600
CATCATTTAGACTCACACCTATTGACAGCAAAAAGATGAGGAATCTTCTCAACAGTCGCT
GTAGTAAATCTGAGTGTGGATAACTGTGCTTTTCTACTCCTTAGAAGAGTTGTCAGCGA

610     620     630     640     650     660
GTGGAATAAGGATGACATCTTCAAACATGCCATTACCAGCATCCTCTTCTACTCAAAGAA
CACCTTATTCCTACTGTAGAAGTTTGTACGGTAATGGTCGTAGGAGAAGATGAGTTTCTT

670     680     690     700     710     720
TTGTCCAAGGAAGGGAAACAGCTATGGAAGGGGAATGGCCATGGCAGGCCAGCCTCCAGC
AACAGGTTCTCTCCCTTTGTCGATACCTTCCCCTTACCGGTACCGTCCGGTCGGAGGTCTG

730     740     750     760     770     780
TCATAGGGTCAGGCCATCAGTGTGGAGCCAGCCTCATCAGTAACACATGGCTGCTCACAG
AGTATCCCAGTCCGGTAGTCACACCTCGGTCCGAGTAGTCATTGTGTACCGACGAGTGTC

790     800     810     820     830     840
CAGCTCACTGCTTTTGGAAAAATAAAGACCCAACCTCAATGGATTGCTACTTTTGGGTGCAA
GTCGAGTGACGAAAACCTTTTATTTCTGGGTTGAGTTACCTAACGATGAAAACCACGTT

850     860     870     880     890     900
CTATAACACCACCCGAGTGAAACGAAATGTGAGGAAAATTATTCTTCATGAGAATTACC
GATATTGTGGTGGGCGTCACCTTTGCTTTACACTCCTTTTAATAAGAAGTACTCTTAATGG

910     920     930     940     950     960
ATAGAGAAACAAATGAAAATGACATTGCTTTGGTTTCAGCTCTCTACTGGAGTTGAGTTT
TATCTCTTTGTTTACTTTTACTGTAACGAAACCAAGTCGAGAGATGACCTCAACTCAAAA
```

FIG. 1C

Applicant(s): Edwin Madison et al.

Nucleic Acid Molecules Encoding A Transmembrane Serine
Protease 7, The Encoded Polypeptides And Methods Based
Thereon

970 980 990 1000 1010 1020
CAAATATAGTCCAGAGAGTTTGCCTCCAGACTCATCTATAAAGTTGCCACCTAAAACAA
GTTTATATCAGGTCTCTCAAACGGAGGGTCTGAGTAGATATTTCAACGGTGGATTTTGTT

1030 1040 1050 1060 1070 1080
GTGTGTTTCGTACAGGATTTGGATCCATTGTAGATGATGGACCTATACAAAATACACTTC
CACACAAGCAGTGTCTAAACCTAGGTAACATCTACTACCTGGATATGTTTTATGTGAAG

1090 1100 1110 1120 1130 1140
GGCAAGCCAGAGTGGAAACCATAAGCACTGATGTGTGTAACAGAAAGGATGTGTATGATG
CCGTTCCGGTCTCACCTTTGGTATTCGTGACTACACACATTGTCTTTCTACACATACTAC

1150 1160 1170 1180 1190 1200
GCCTGATAACTCCAGGAATGTTATGTGCTGGATTTCATGGAAGGAAAAATAGATGCATGTA
CGGACTATTGAGGTCTTACAATACACGACCTAAGTACCTTTCTTTTATCTACGTACAT

1210 1220 1230 1240 1250 1260
AGGGAGATTCTGGTGGACCTCTGGTTTATGATAATCATGACATCTGGTACATTGTAGGTA
TCCCTCTAAGACCACCTGGAGACCAAATACTATTAGTACTGTAGACCATGTAACATCCAT

1270 1280 1290 1300 1310 1320
TAGTAAGTTGGGGACAATCATGTGCACTTCCCAAAAAACCTGGAGTCTACACCAGAGTAA
ATCATTCAACCCCTGTTAGTACACGTGAAGGGTTTTTTGGACCTCAGATGTGGTCTCATT

1330 1340 1350 1360 1370 1380
CTAAGTATCGAGATTGGATTGCCTCAAAGACTGGTATGTAGTGTGGATTGTCCATGAGTT
GATTCATAGCTCTAACCTAACGGAGTTTCTGACCATAACATCACACCTAACAGGTACTCAA

1390 1400 1410 1420 1430 1440
ATACACATGGCACACAGAGCTGATACTCCTGCGTATTTTGTATTGTTTAAATTCATTTAC
TATGTGTACCGTGTGTCTCGACTATGAGGACGCATAAAACATAACAAATTTAAGTAAATG

1450 1460 1470 1480 1490 1500
TTTGGATTAGTGCTTTTGTAGATGTCAAGAAGCCCTTCAGACCCAGACAAATCTAATAT
AAACCTAATCACGAAAACGATCTACAGTTCTTCGGGAAGTCTGGGTCTGTTTAGATTATA

1510 1520 1530 1540 1550 1560
CCTGAGGTGGCCTTTACATACGTAGGACCAAACCTCTCTACCATGAGGGAAGAAGACAC
GGACTCCACCGGAAATGTATGCATCCTGGTTTGGGAGAGATGGTACTCCCTTCTTCTGTG

1570 1580 1590 1600 1610 1620
AGCAAATGACAGACAGCACCTATTCTTACTCACAAGGGAACTGCTTGTGATACTTCCT
TCGTTTACTGTCTGTCTGGATAAGGAATGAGTGTTCCTTTGACGAACACTATGAAGGA

1630 1640 1650 1660 1670 1680
AATAAGATAAATAAGTGGTTTCCCTCAATTGAAGACAGGAACATCATTTTCCACAGGATA
TTATTCTATTTATTACCAAAGGGAGTTAACTTCTGTCTTGTAGTAAAAGGTGTCCTAT

1690 1700 1710 1720 1730 1740
TGAAGAGCTGCCAGTAATGCCAAAATCTTACCTCATATAATACCTGGAGCATGTGAGATT
ACTTCTCGACGGTCATTACGGTTTTAGAAATGGAGTATATTATGGACCTCGTACACTCTAA

1750 1760 1770 1780 1790 1800
CTTCTAGTGAAGAAAGAACAGTCTTCCCTGAAGACTCAGGGCTTCAACATTCTAGAACTGA
GAAGATCACTTTTTCTTGTGTCAGAAGGGACTTCTGAGTCCCGAAGTTGTAAGATCTTGA

1810 1820 1830 1840 1850 1860
TAAGTGGACCTTCAGTGTGCAAGAATGGAGAAGCATGGGATTTGCATTATGACTTGAAC
ATTACCTGGAAGTCACACGTTCTTACCTCTTCGTACCCTAAACGTAATACTGAACTTGA

1870 1880 1890 1900 1910 1920
GGGCTTATATCTAATAATACAGAGCACTATCACTAACCTCAACAGTTGACATTTTAAAG
CCCGAATATAGATTATTATGTCTCGTGTAGTGAATTGGAGTTGTCAACTGTAAAATTTTC

FIG. 1D

Appln No.: 10/099,700

Applicant(s): Edwin Madison et al.

Nucleic Acid Molecules Encoding A Transmembrane Serine
Protease 7, The Encoded Polypeptides And Methods Based
Thereon

1930 1940 1950 1960 1970 1980
TTTTTAAATGTATCTGAACTTGCTGTTAACACAGTGTATATACTCAAGCACTAGCTTCAG
AAAAATTTACATAGACTTGAACGACAATTGTGTCACAATATTGAGTTCGTGATCGAAGTC

1990 2000 2010 2020 2030 2040
GAAGCATGTTGTGTTGTTAAGAGCTTTTTCTGATTTATTCTTTAACAGCATCTTGCCATC
CTTCGTACAACACAACAATTCTTCGAAAAGACTAAATAAGAAATTGTCGTAGAACGGTAG

2050 2060 2070 2080 2090 2100
TATATGTTAGTAGCAGTTGGCCAGAAAGGACAAAAAAAAAAAAAAAAAAAAAAAAAAAA
ATATACAATCATCGTCAACGGGGTCTTTCCTGTTTTTTTTTTTTTTTTTTTTTTTTTTT

FIG. 1E